

Statewide Transportation Planning Framework

Statewide Travel Demand Model Population and Employment Projections

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Abbreviations

ADOT	Arizona Department of Transportation
AZTDM	Arizona Statewide Travel Demand Model
bqAZ	Building a Quality Arizona
BIA	Bureau of Indian Affairs
CAAG	Central Arizona Association of Governments
CAP	Central Arizona Project
COG	Council of Governments
CTPP	Census Transportation Planning Package
CYMPO	Central Yavapai Metropolitan Planning Organization
DES	Arizona Department of Economic Security
DOC	Arizona Department of Commerce
DU	Dwelling Unit
FHWA	Federal Highway Administration
FMPO	Flagstaff Metropolitan Planning Organization
GIS	Geographic Information Systems
I	Interstate
LOS	Level of Service
MAG	Maricopa Association of Governments
MPO	Metropolitan Planning Organization
NACOG	Northern Arizona Council of Governments
PAG	Pima Association of Governments
SATS	Small Area Transportation Study
STAZ	Statewide Transportation (or Traffic) Analysis Zone
SEAGO	South Eastern Arizona Governments Organization
SWSP	Southwest Sketch Planning Tool
WACOG	Western Arizona Council of Governments
YMPO	Yuma Metropolitan Planning Organization

1.0 INTRODUCTION

Population and employment growth is the driving force behind the increases in travel demand generating the need for new roads and transit service across the state. The purpose of the Arizona Department of Transportation (ADOT) Statewide Transportation Planning Framework is to define a long-range vision to guide investment in Arizona's transportation infrastructure to accommodate future demand.

This planning study is using 2030 and 2050 population and employment projections to identify transportation deficiencies and test multimodal improvement scenarios. The preparation of this statewide database of socioeconomic projections focused on compiling locally adopted and accepted projections from recent planning studies. This process involved extensive coordination with each of the MPOs, COGs and counties to identify key data sources. In some areas, the study team used projections from the Arizona Department of Economic Security (DES) to prepare model input data. In 2008, responsibility for preparing state population projections passed to the Arizona Department of Commerce (DOC). MAG and PAG prepared special unofficial socioeconomic projections for 2050 to support this statewide planning effort.

These socioeconomic projections are key input into two travel demand models. The Southwest Sketch Planning Tool (SWSPT) estimates travel demand on a regional scale for portions of six states and Mexico. This tool provides input on interstate trip interaction. The Arizona Statewide Travel Demand Model (AZTDM) is a detailed three-step travel demand model whose primary purpose is to assess regional transportation needs in Arizona.

This paper introduces these two planning tools and details the development of the 2030 and 2050 population and employment data that they use. After this introduction, the first section discusses the AZTDM. It provides an overview of the statewide model and details the preparation of its socioeconomic inputs. The second section of this document describes the SWSPT and discusses the preparation of its socioeconomic inputs. There are two appendices. Appendix A shows the population and employment projections by statewide traffic analysis zone (STAZ) for each of Arizona's 15 counties. Appendix B shows the population projections by county for the area covered by the SWSPT.